

LEGEND OF UNDERGROUND  
AND OVERHEAD UTILITIES

**WR&A**

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and Associates, LLP  
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Baltimore, Maryland 21218  
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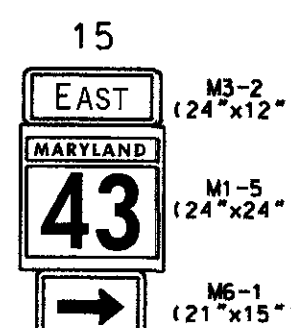
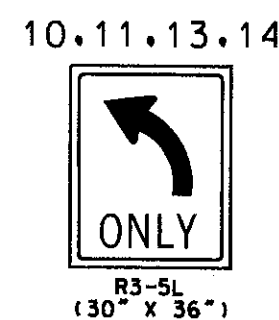
AERIAL CABLE \_\_\_\_\_  
ELECTRICAL \_\_\_\_\_  
TELEPHONE \_\_\_\_\_  
GAS \_\_\_\_\_  
SEWER \_\_\_\_\_  
STORM DRAIN \_\_\_\_\_  
WATER \_\_\_\_\_  
CABLE TV \_\_\_\_\_

MD 43 IS ASSUMED TO RUN  
IN AN EAST-WEST DIRECTION

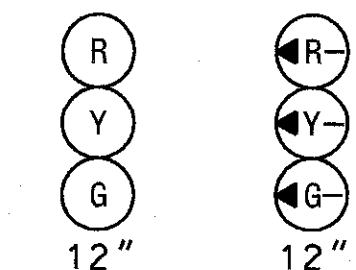
**SPECIAL NOTE:**

CONTRACTOR SHALL INSTALL CONDUIT PRIOR TO ROADWAY  
SURFACING AT SUFFICIENT DEPTH TO AVOID DISTURBANCE  
DURING ROADWAY CONSTRUCTION.

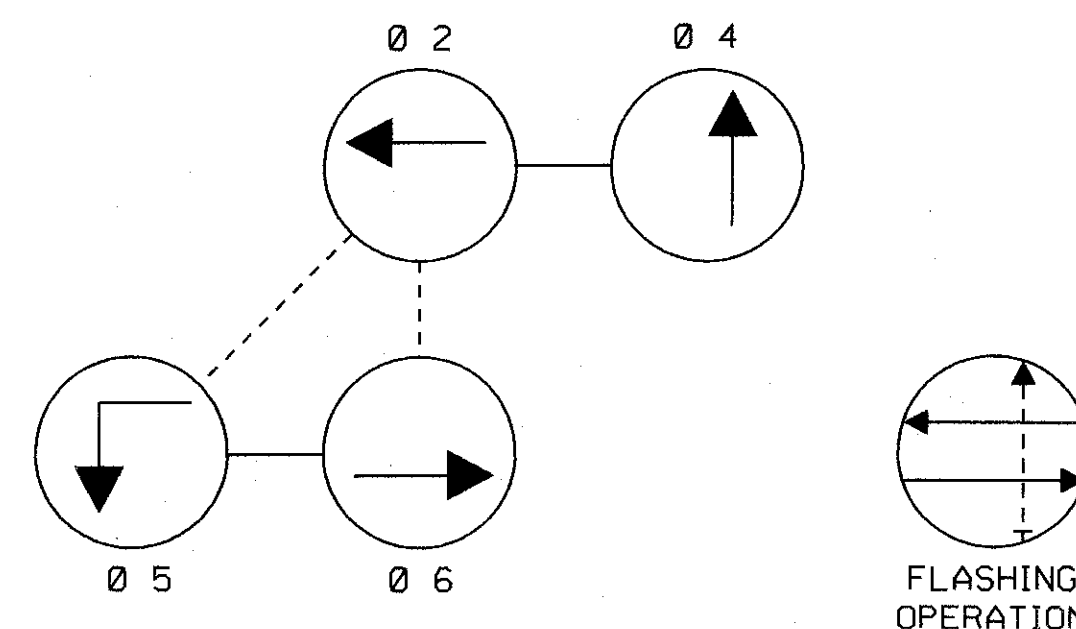
**SIGNS**



**SIGNAL HEADS**



**NEMA PHASING**



**PHASING NOTES:**

- PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
- PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

**CONSTRUCTION DETAILS**

- INSTALL 27 FT. STEEL POLE WITH A 70 FT. MAST ARM. TRAFFIC SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA MOUNTED ON LIGHTING ARM AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
- INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT. (CUT TO 45 FT./50 FT. (CUT TO 40 FT.)) MAST ARMS. TRAFFIC SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA MOUNTED ON LIGHTING ARM AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
- INSTALL 14 FT. BREAKAWAY PEDESTAL POLE WITH TRAFFIC SIGNAL HEAD. (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
- INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH CONCRETE PAD AND CONTROL AND DISTRIBUTION EQUIPMENT. (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN CABINET BASE.)
- INSTALL HANDHOLE.
- INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 1,000 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT.
- INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 500 FT. LEAD-IN. IN PROPOSED 3 IN. CONDUIT.
- INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE FOR FUTURE STEPDOWN TRANSFORMER TO BE INSTALLED BY BGE FORCES.
- INSTALL 2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
- INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
- INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
- INSTALL 5 IN. SKIP WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING (3 FOOT LINE WITH 9 FOOT GAP).
- INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
- CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.
- INSTALL 3 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED). CONDUIT SHALL TIE INTO CONDUIT EXITING BRIDGE PARAPET. (SEE BRIDGE PLANS FOR DETAILS)
- USE EXISTING CONDUIT IN PARAPET.
- INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PERFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE).
- INSTALL ROUTE MARKER ASSEMBLY ON ONE 4 IN. x 6 IN. TREATED WOOD SUPPORT.

**GENERAL NOTES**

- THE CONTRACTOR SHALL NOT CUT MAST ARM AS INDICATED ON PLANS UNTIL MAST ARM POLE LOCATION IS FINALIZED.
- INSTALL CONDUIT AND LOOP DETECTORS PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
- VERIFY PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
- ALL SIGNAL EQUIPMENT SHALL BE INSTALLED AT FINAL GRADE.
- THE SIGNAL CONTRACTOR SHALL DETERMINE IF ANY WORK BY OTHER CONTRACTORS CAN NOT BE COMPLETED UNTIL INSTALLATION OF SIGNAL EQUIPMENT IS COMPLETE. THE SIGNAL CONTRACTOR SHALL NOTIFY OTHER CONTRACTORS OF THIS WORK.

TSP-6



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION

TRAFFIC SIGNALIZATION PLAN  
MD 43 (WHITE MARSH BLVD) AND RAMP 'A' TO U.S. 40

DRAWN BY: S. BLOSS  
CHECKED BY: N. LEARY  
SCALE: 1" = 20'  
DATE: 11/6/2002

F.A.P. NO.  
S.H.A. NO. BAB475171  
COUNTY: BALTIMORE  
LOG MILE:

TS NO.  
SHEET NO.  
OF